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ABSTRACT

The present invention provides a refractory and heat insulating material excellent in heat resistance, slag 5 resistance, molten steel resistance, wear resistance, and mechanical impact resistance, and relates to a highly durable heat insulating material characterized by having a thermally sprayed film of refractory ceramic on a surface of a formed body of an inorganic refractory fiber 10 which surface is covered with a cloth material or was covered with the cloth material until it burned out by flame fusion coating of refractory ceramic powder material during the fabricating process of the heat 15 insulating material, with an application film of a surface hardening material acting as an intermediary layer between the thermally sprayed film and the fiber body.